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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,128 05/15/2001		05/15/2001	Lars Gustaf Liljeryd	0226-0110P	3432
2292	7590	10/29/2004	EXAMINER		
		ΓKOLASCH & BIR	ABEBE, DANIEL DEMELASH		
PO BOX 74 FALLS CH		VA 22040-0747	ART UNIT	PAPER NUMBER	
				2655	
			DATE MAILED: 10/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)					
		09/763,128	3	LILJERYD ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Daniel D Al	1	2655					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status		·							
1)	Responsive to communication(s) filed	on							
•	This action is FINAL. 2b)⊠ This action is non-final.								
3)									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) 🖂	4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
·	Claim(s) <u>1-7,10,12-14,16 and 17</u> is/are rejected.								
•	Claim(s). <u>8,9,11 and 15</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
8)	Claim(s) are subject to restriction	n and/or election rec	quirement.						
Applicati	on Papers								
9)☐ The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	((s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notic	e of Draftsperson's Patent Drawing Review (PTO	-948)	Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)						
	nation Disclosure Statement(s) (PTO-1449 or PTo r No(s)/Mail Date <u>5/2001; 2/2003</u> .	_,,	6) Other:		· · · · · · · ·				

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Preliminary amendment

The preliminary amendment filed on 2/20/2001 is not entered because the amendment is not signed.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "grid" in 7. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 10 and 12-14 and 16-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Davidson (5,394,473).

As to claim 1, Davidson teaches a low bit spectral coding and decoding, comprising the steps of:

Perform digital analysis on an input signal into segments;

Select time frequency resolution or signal sample block length for each sampled audio segments;

"In accordance with the teachings of the present invention, in a specific embodiment a transient detector adaptively selects signal sample block lengths shorter than the maximum block length normally used by the invention when shorter block lengths are needed to insure psychoacoustic masking of distortion artifacts created by transient signals. The digitized signal samples are passed through a high-pass filter and grouped into subblocks." (Col.Col.11, lines 33-40;

"The invention relates in general to high-quality low bit-rate digital transform coding and decoding of information corresponding to audio signals such as music or voice signals. More particularly, the invention relates to signal analysis/synthesis in coding and decoding. The invention can optimize the trade off in transform coders between time resolution and frequency resolution by adaptively selecting the transform block length for each sampled audio segment, and/or can optimize coding gain by adaptively selecting the transform and/or by adaptively selecting the analysis window or the analysis/synthesis window pair." (Col.1, lines 12-24).

Generated sets of spectra coefficient (envelope data) for each signal block;

And transmit the data to a decoder where its used to synthesize the speech.

(Col.10, lines 61-70).

As to claim 2, Davison teaches a weighting factor for every group (Fig.19a).

As to claims 3-4, Davidson teaches a filter bank to obtain the time frequency resolution (Fig.1).

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As to claims 5-6, Davidson teaches transient detector and linear predictor (Fig.1a-1b).

As to claim 7, according to Davison change in frequency-time resolution is implied through changing the size of the block length using the adaptive window (abstract).

As to claim 10, Davison teaches where the block length vary (Col.4, lines35-45).

As to claims 12-14, Davidson teaches where the data is encoded (Fig.1).

Claim 16 is analogous to claim 1 and is rejected for the foregoing reasons by Davidson.

As to claim 17, the corresponding decoder for synthesizing speech from the data is shown (Fig.1b).

Allowable Subject Matter

Claims 8-9,11 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D Abebe whose telephone number is 703-308-5543. The examiner can normally be reached on monday-friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 703-305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Daniel Abebe, Primary Examiner A.U. 2655

October 18, 2004